Application No. 09/599,987

AMENDMENTS TO THE CLAIMS

Please cancel without prejudice or disclaimer of the subject matter therein Claims 1-14, 16, 17, 19, 31-40 and 43-55.

1-19. (Cancelled)

20. (Currently Amended-Thrice) A pharmomechanical device, comprising:

~~means to increase the surface area of a clot in a vascular structure such that said clot can be dissolved by a lytic agent; and~~

a catheter having a corkscrew configuration throughout its length that is substantially incapable of damaging an endothelium of a vascular structure, said catheter rotating between 30 rpm and 600 rpm once it is inserted inside a patient, said catheter increasing the surface area of a clot in said vascular structure such that said clot can be dissolved by a lytic agent; and

means for providing mechanical motion to said ~~a~~ catheter throughout a length of a vessel for a prolonged period of time while said lytic agent is acting., ~~said means for providing mechanical motion comprising a corkscrew catheter configuration substantially incapable of damaging an endothelium of said vascular structure, said means for providing mechanical motion causing said catheter to rotate once it is inserted inside a patient.~~

21. (Original) The device as set forth in claim 20, wherein said period is at least about 5 hours.

22. (Original) The device as set forth in claim 20, wherein said period is at least about 10 hours.

23. (Original) The device as set forth in claim 20, wherein said period is at least about 24 hours.

24. (Previously Amended) The device as set forth in Claim 20, wherein said means for providing mechanical motion operates intermittently and over a prolonged period of time.

25. (Previously Amended) The device as set forth in Claim 24, wherein said means for providing mechanical motion provides for a time of inactivity at least as great as a time of activity of said device.

26. (Previously Amended) The device as set forth in Claim 20, wherein said means for providing mechanical motion generates vibrations effective to disrupt a clot, but does not promote hemolysis or cause damage to an endothelium.

27. (Previously Amended) The device as set forth in Claim 20, wherein said device extends for a substantial length of said vessel.

28. (Original) The device as set forth in Claim 20, further comprising an occluding element positioned so as to maintain desired concentration of a thrombolytic drug in a desired segment of a patient's blood vessels.

29. (Currently Amended) The device as set forth in Claim 2524, wherein athe ratio of an inactivation time to an activation time is greater than 1.

30. (Currently Amended) The device as set forth in Claim 2524, wherein athe ratio of an inactivation time to an activation time is greater than 50.

31-40. (Cancelled)

41. (Currently Amended - Twice) The device as set forth in Claim 20, further comprising a pump that is programmable to deliver a lytic agent, and wherein an intermittent mechanical motion of the catheter is caused by the delivery of said ~~a~~ lytic agent ~~in pulses, said pump being programmable to deliver the lytic agent in pulses~~.

42. (Previously Amended) The device as set forth in Claim 41, wherein said pump is programmed to deliver said lytic agent at a desired frequency or duration.

43-55. (Cancelled)